

METHOD AND APPARATUS FOR STEERING MOVABLE OBJECT BY  
USING CONTROL ALGORITHM THAT TAKES INTO ACCOUNT THE  
DIFFERENCE BETWEEN THE NOMINAL AND OPTIMUM POSITIONS OF  
NAVIGATION ANTENNA.

5

ABSTRACT OF THE DISCLOSURE

A method of steering a vehicle along a predetermined, or real time path by  
using a steering control algorithm. The vehicle includes a navigation system and  
10 a navigation antenna. The navigation antenna is mounted on the vehicle at an  
optimum antenna position, whereas the steering control algorithm assumes a  
nominal antenna position at a predetermined reference point. The method  
comprises the following steps: (A) obtaining a set of positioning data of the  
vehicle by using the navigation system and by using the navigation antenna  
15 mounted at the optimum antenna position; (B) modifying the set of positioning  
data of the vehicle; (C) measuring a steering angle(s) of the front wheels of the  
vehicle relative to a predetermined reference direction(s); (D) calculating a  
correction(s) to the measured steering angle(s); and (E) performing a steering  
action by using the correction(s) to the measured steering angle(s) to move the  
20 vehicle along the predetermined, or real time path.